

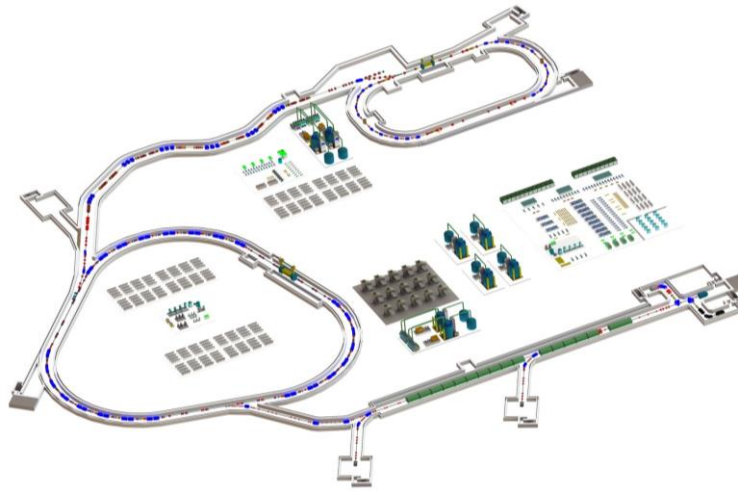
WG6:Facilities Working Group (summary)

Xiaofei Yang@PKU

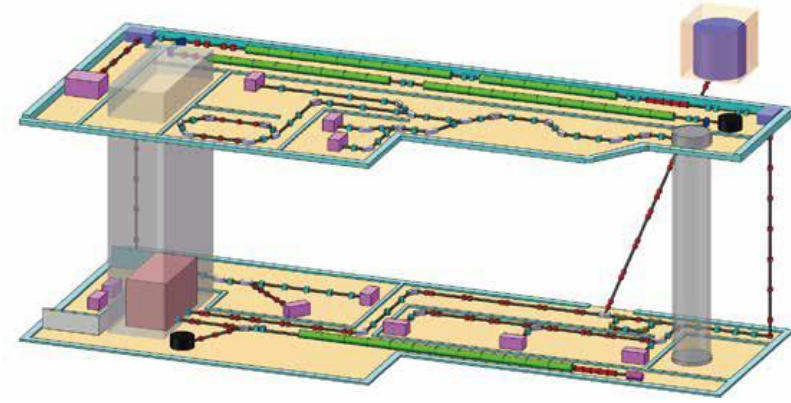
Conveners : Bradley Sherrill, Yanlin Ye, Xiaohong Zhou



FRIB



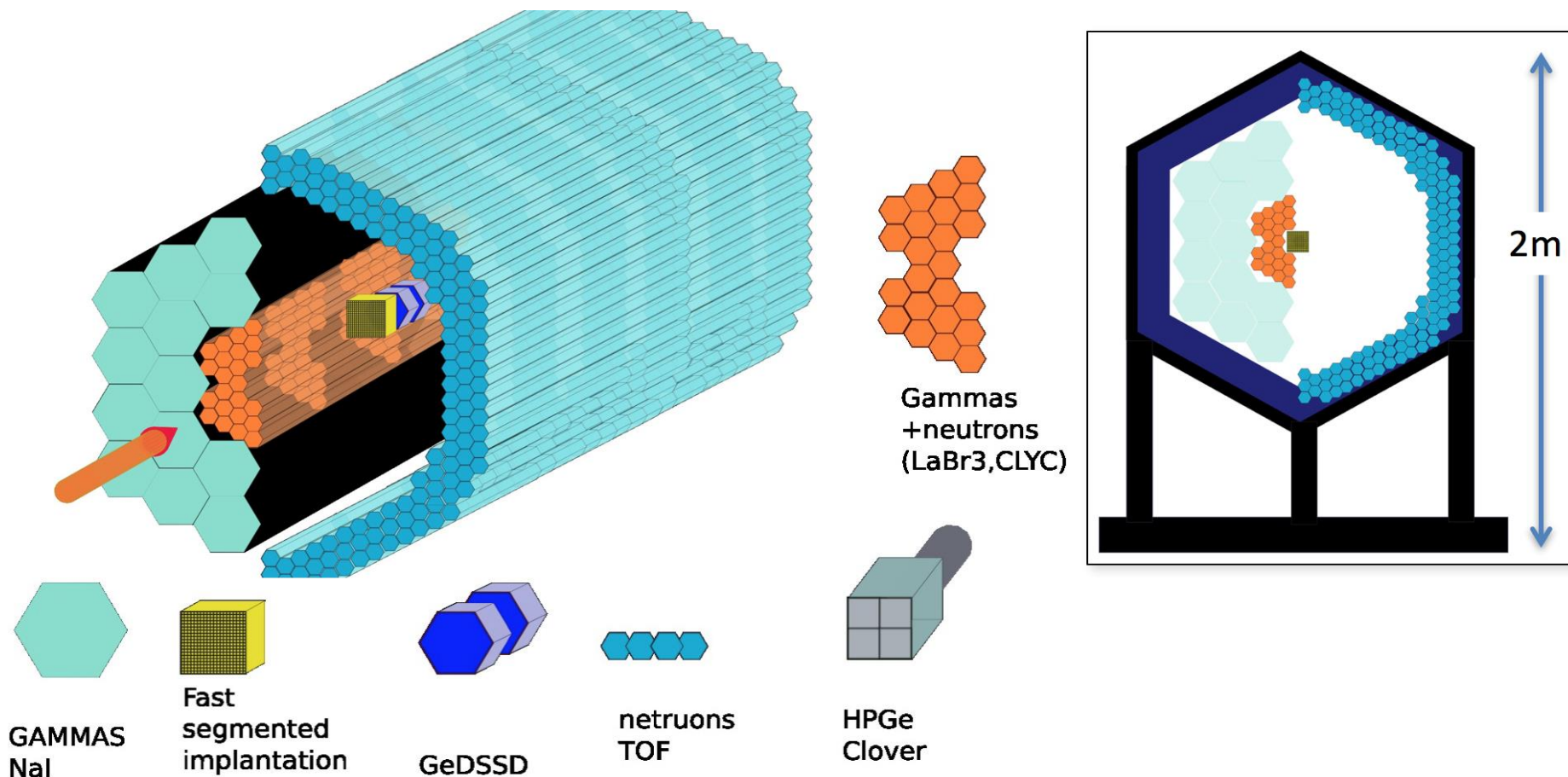
HAIF



BISOL

- We have 5 presentations which covered many aspects and setups of ongoing-facilities FRIB, HAIF, JUNA, and future planned facility BISOL.
- There are many areas of joint interest that could form the basis for future collaboration

For examples.....



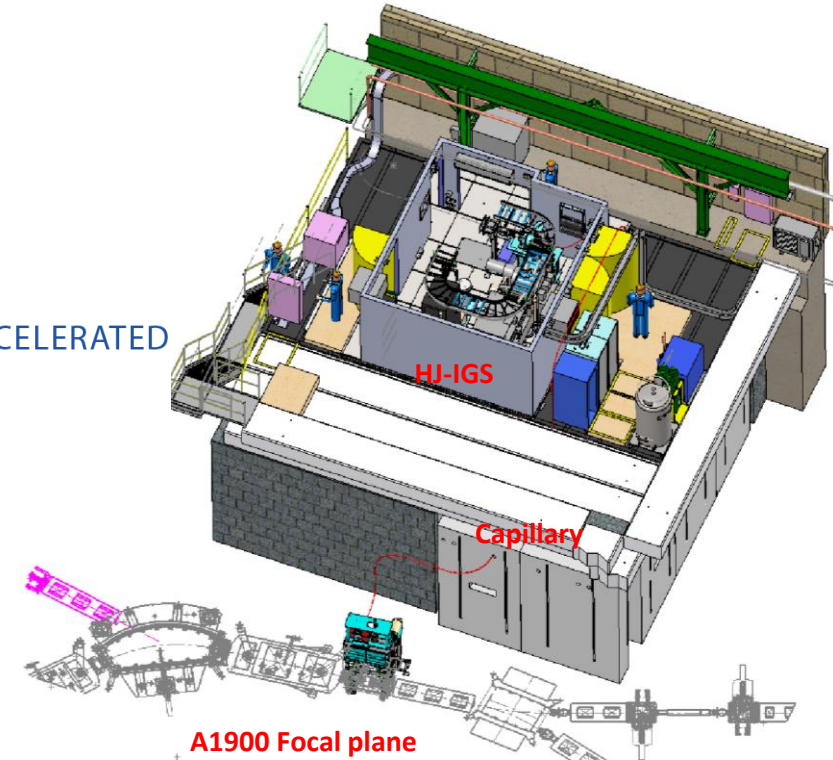
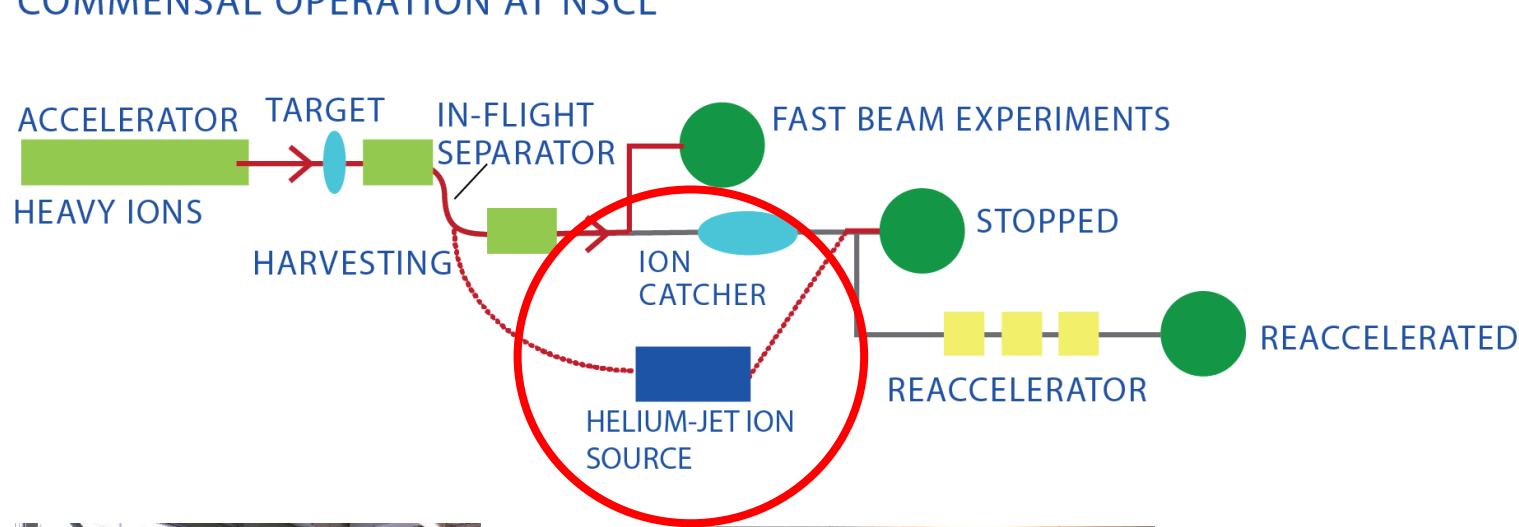
- Combination of implantation (thick Ge DSSD), gamma-ray detectors (HPGe array / LaBr₃ / calorimeter), neutrons (VANDLE) & others for decay studies
- Potentially, we (China side) have chance to get **funding from NSFC** based on the international collaboration framework, to **contribute some parts** for the whole system, such as the LaBr₃.
- We (China side) also have **many experienced researchers** in China in decay spectroscopy who could involve in this project.

Helium-Jet Ion-Guide System (HJ-IGS) + Ion Catcher

Courtesy Bradley Sherrill

1000s of unused isotopes could be harvested and used for stopped, reaccelerated, beams, and other applications

COMMENSAL OPERATION AT NSCL

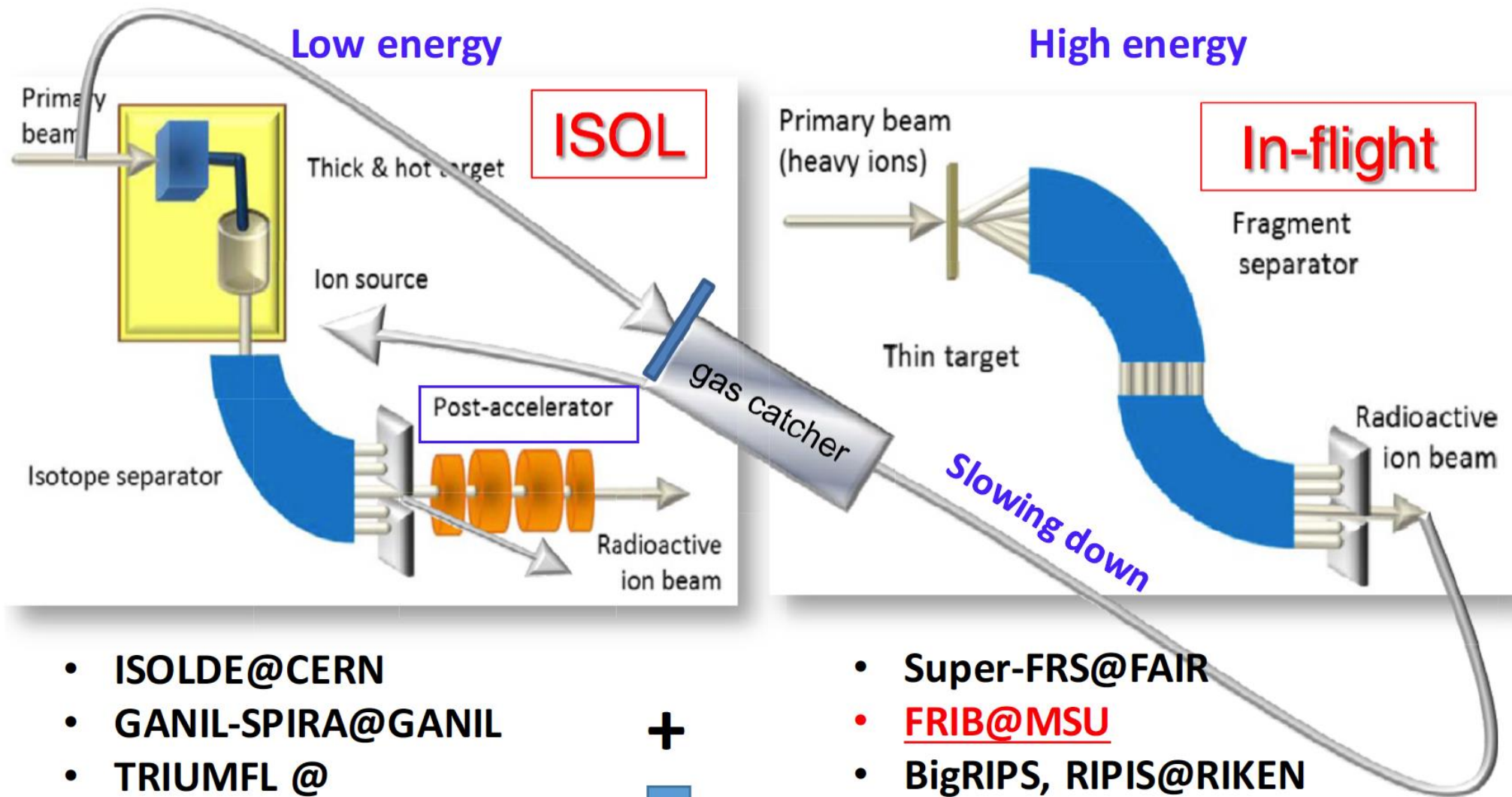


Since these will benefit a lot of low energy experiments (laser spectroscopy, penning trap et al), and the techniques for slow down beams could be further used to HAIF and future BISOL facilities in China, we are thinking to have meeting/workshop seeking for further collaboration.

Summary and Conclusions

- We should explore **a Chinese contribution to the FRIB Decay Station** – This device could move between laboratories and conduct experiments at HIAF. Identify contact people on both sides and work to apply for financial support from China.
- We should encourage **collaboration in areas of joint technical interest**
 - A solid collaboration already exists on **TPC development**. We encourage future collaboration and mutual participation in TPC experiments.
 - **Invitations for individual visits to Chinese and US Institutes** should be initiated. The China-US Steering Committee should make recommendations for possible visits.
- We think the time is right to organize an **“Experts Meeting”** on **fast beam diagnostics, gas stopping, LASER spectroscopy and ionization, magnet, and target technology**. A goal would be to have one or two of these meetings in the next few years.

Thank you!



- ISOLDE@CERN
- GANIL-SPIRA@GANIL
- TRIUMFL @
- BISOL

+



- Super-FRS@FAIR
- FRIB@MSU
- BigRIPS, RIPIS@RIKEN
- HIAF@IMP

Complemental RIB techniques + advanced laser spectroscopy techniques

Potential collaboration: slow down RIB (gas catchers @MSU)

for ground state properties measurement